

Raimund BÃ¼rger

List of Publications by Year in descending order

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139
papers

2,245
citations

257450

24
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315739

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145
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145
docs citations

145
times ranked

992
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Strongly Degenerate Parabolic-Hyperbolic Systems Modeling Polydisperse Sedimentation with Compression. <i>SIAM Journal on Applied Mathematics</i> , 2003, 64, 41-80. | 1.8 | 130 |
| 2 | A consistent modelling methodology for secondary settling tanks in wastewater treatment. <i>Water Research</i> , 2011, 45, 2247-2260. | 11.3 | 109 |
| 3 | Sedimentation and Thickening. , 1999, , . | | 90 |
| 4 | A Model of Continuous Sedimentation of Flocculated Suspensions in Clarifier-Thickener Units. <i>SIAM Journal on Applied Mathematics</i> , 2005, 65, 882-940. | 1.8 | 89 |
| 5 | A family of numerical schemes for kinematic flows with discontinuous flux. <i>Journal of Engineering Mathematics</i> , 2008, 60, 387-425. | 1.2 | 79 |
| 6 | Sedimentation and suspension flows: Historical perspective and some recent developments. <i>Journal of Engineering Mathematics</i> , 2001, 41, 101-116. | 1.2 | 74 |
| 7 | An Engquist-Osher-Type Scheme for Conservation Laws with Discontinuous Flux Adapted to Flux Connections. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 1684-1712. | 2.3 | 73 |
| 8 | Adaptive multiresolution WENO schemes for multi-species kinematic flow models. <i>Journal of Computational Physics</i> , 2007, 224, 1190-1222. | 3.8 | 57 |
| 9 | A consistent modelling methodology for secondary settling tanks: a reliable numerical method. <i>Water Science and Technology</i> , 2013, 68, 192-208. | 2.5 | 55 |
| 10 | A Century of Research in Sedimentation and Thickening. <i>KONA Powder and Particle Journal</i> , 2002, 20, 38-70. | 1.7 | 51 |
| 11 | Optimization of flocculation and settling parameters of tailings slurry by response surface methodology. <i>Minerals Engineering</i> , 2020, 156, 106488. | 4.3 | 49 |
| 12 | On reliable and unreliable numerical methods for the simulation of secondary settling tanks in wastewater treatment. <i>Computers and Chemical Engineering</i> , 2012, 41, 93-105. | 3.8 | 47 |
| 13 | Comparative analysis of phenomenological growth models applied to epidemic outbreaks. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 4250-4273. | 1.9 | 39 |
| 14 | A Stabilized Finite Volume Element Formulation for Sedimentation-Consolidation Processes. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, B265-B289. | 2.8 | 37 |
| 15 | Linearly Implicit IMEX Runge-Kutta Methods for a Class of Degenerate Convection-Diffusion Problems. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, B305-B331. | 2.8 | 36 |
| 16 | On models of polydisperse sedimentation with particle-size-specific hindered-settling factors. <i>Applied Mathematical Modelling</i> , 2009, 33, 1815-1835. | 4.2 | 31 |
| 17 | A multiresolution space-time adaptive scheme for the bidomain model in electrocardiology. <i>Numerical Methods for Partial Differential Equations</i> , 2010, 26, 1377-1404. | 3.6 | 28 |
| 18 | Applications of polydisperse sedimentation models. <i>Chemical Engineering Journal</i> , 2005, 111, 105-117. | 12.7 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | On the well-posedness of entropy solutions to conservation laws with a zero-flux boundary condition. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 326, 108-120. | 1.0 | 26 |
| 20 | Effect of interparticle interactions on the yield stress of thickened flocculated copper mineral tailings slurry. <i>Powder Technology</i> , 2021, 392, 278-285. | 4.2 | 26 |
| 21 | Difference schemes, entropy solutions, and speedup impulse for an inhomogeneous kinematic traffic flow model. <i>Networks and Heterogeneous Media</i> , 2008, 3, 1-41. | 1.1 | 26 |
| 22 | On gravity and centrifugal settling of polydisperse suspensions forming compressible sediments. <i>International Journal of Solids and Structures</i> , 2003, 40, 4965-4987. | 2.7 | 25 |
| 23 | Mathematical model and numerical simulation of the dynamics of flocculated suspensions in clarifier-thickeners. <i>Chemical Engineering Journal</i> , 2005, 111, 119-134. | 12.7 | 25 |
| 24 | On the implementation of WENO schemes for a class of polydisperse sedimentation models. <i>Journal of Computational Physics</i> , 2011, 230, 2322-2344. | 3.8 | 25 |
| 25 | Discontinuous finite volume element discretization for coupled flow-transport problems arising in models of sedimentation. <i>Journal of Computational Physics</i> , 2015, 299, 446-471. | 3.8 | 25 |
| 26 | On constitutive functions for hindered settling velocity in 1-D settler models: Selection of appropriate model structure. <i>Water Research</i> , 2017, 110, 38-47. | 11.3 | 25 |
| 27 | Adaptive multiresolution schemes with local time stepping for two-dimensional degenerate reaction-diffusion systems. <i>Applied Numerical Mathematics</i> , 2009, 59, 1668-1692. | 2.1 | 24 |
| 28 | Adaptive Multiresolution Methods for the Simulation of Waves in Excitable Media. <i>Journal of Scientific Computing</i> , 2010, 43, 261-290. | 2.3 | 24 |
| 29 | Second-order schemes for conservation laws with discontinuous flux modelling clarifier-thickener units. <i>Numerische Mathematik</i> , 2010, 116, 579-617. | 1.9 | 23 |
| 30 | Steady-state, control, and capacity calculations for flocculated suspensions in clarifier-thickeners. <i>International Journal of Mineral Processing</i> , 2007, 84, 274-298. | 2.6 | 22 |
| 31 | Conservation laws with discontinuous flux: a short introduction. <i>Journal of Engineering Mathematics</i> , 2008, 60, 241-247. | 1.2 | 22 |
| 32 | Modeling and controlling clarifier-thickeners fed by suspensions with time-dependent properties. <i>Minerals Engineering</i> , 2014, 62, 91-101. | 4.3 | 22 |
| 33 | Fully adaptive multiresolution schemes for strongly degenerate parabolic equations in one space dimension. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2008, 42, 535-563. | 1.9 | 21 |
| 34 | Hyperbolicity Analysis of Polydisperse Sedimentation Models via a Secular Equation for the Flux Jacobian. <i>SIAM Journal on Applied Mathematics</i> , 2010, 70, 2186-2213. | 1.8 | 20 |
| 35 | On the Efficient Computation of Smoothness Indicators for a Class of WENO Reconstructions. <i>Journal of Scientific Computing</i> , 2019, 80, 1240-1263. | 2.3 | 20 |
| 36 | A semi-implicit monotone difference scheme for an initial-boundary value problem of a strongly degenerate parabolic equation modeling sedimentation-consolidation processes. <i>Mathematics of Computation</i> , 2005, 75, 91-113. | 2.1 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A GENERALIZED KINETIC MODEL OF SEDIMENTATION OF POLYDISPERSE SUSPENSIONS WITH A CONTINUOUS PARTICLE SIZE DISTRIBUTION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2008, 18, 1741-1785. | 3.3 | 19 |
| 38 | Convexity-preserving flux identification for scalar conservation laws modelling sedimentation. <i>Inverse Problems</i> , 2013, 29, 045008. | 2.0 | 18 |
| 39 | Simulations of reactive settling of activated sludge with a reduced biokinetic model. <i>Computers and Chemical Engineering</i> , 2016, 92, 216-229. | 3.8 | 18 |
| 40 | Advanced methods of flux identification for clarifier-thickener simulation models. <i>Minerals Engineering</i> , 2014, 63, 2-15. | 4.3 | 17 |
| 41 | A hybrid stochastic Galerkin method for uncertainty quantification applied to a conservation law modelling a clarifier-thickener unit. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2014, 94, 793-817. | 1.6 | 17 |
| 42 | On a doubly nonlinear diffusion model of chemotaxis with prevention of overcrowding. <i>Mathematical Methods in the Applied Sciences</i> , 2009, 32, 1704-1737. | 2.3 | 16 |
| 43 | Regularized Nonlinear Solvers for IMEX Methods Applied to Diffusively Corrected Multispecies Kinematic Flow Models. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, B751-B777. | 2.8 | 16 |
| 44 | Virtual element methods for the three-field formulation of time-dependent linear poroelasticity. <i>Advances in Computational Mathematics</i> , 2021, 47, 1. | 1.6 | 16 |
| 45 | On an extended clarifier-thickener model with singular source and sink terms. <i>European Journal of Applied Mathematics</i> , 2006, 17, 257-292. | 2.9 | 15 |
| 46 | A multilayer shallow water system for polydisperse sedimentation. <i>Journal of Computational Physics</i> , 2013, 238, 281-314. | 3.8 | 15 |
| 47 | Concentration-driven models revisited: towards a unified framework to model settling tanks in water resource recovery facilities. <i>Water Science and Technology</i> , 2017, 75, 539-551. | 2.5 | 15 |
| 48 | An Efficient Third-Order WENO Scheme with Unconditionally Optimal Accuracy. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A1028-A1051. | 2.8 | 15 |
| 49 | Fully adaptive multiresolution schemes for strongly degenerate parabolic equations with discontinuous flux. <i>Journal of Engineering Mathematics</i> , 2008, 60, 365-385. | 1.2 | 14 |
| 50 | On $H(\text{div})$ -conforming Methods for Double-diffusion Equations in Porous Media. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 1318-1343. | 2.3 | 14 |
| 51 | Numerical solution of a spatio-temporal predator-prey model with infected prey. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 438-473. | 1.9 | 14 |
| 52 | On a Free Boundary Problem for a Strongly Degenerate Quasi-Linear Parabolic Equation with an Application to a Model of Pressure Filtration. <i>SIAM Journal on Mathematical Analysis</i> , 2002, 34, 611-635. | 1.9 | 13 |
| 53 | Discontinuous approximation of viscous two-phase flow in heterogeneous porous media. <i>Journal of Computational Physics</i> , 2016, 321, 126-150. | 3.8 | 13 |
| 54 | Numerical solution of a spatio-temporal gender-structured model for hantavirus infection in rodents. <i>Mathematical Biosciences and Engineering</i> , 2017, 15, 95-123. | 1.9 | 13 |

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|----|--|-----|-----------|
| 55 | On mathematical models and numerical simulation of the fluidization of polydisperse suspensions. Applied Mathematical Modelling, 2005, 29, 159-193. | 4.2 | 12 |
| 56 | Closed-form and finite difference solutions to a population balance model of grinding mills. Journal of Engineering Mathematics, 2005, 51, 165-195. | 1.2 | 12 |
| 57 | On Riemann problems and front tracking for a model of sedimentation of polydisperse suspensions. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2007, 87, 665-691. | 1.6 | 12 |
| 58 | On linearly implicit IMEX Runge-Kutta methods for degenerate convection-diffusion problems modeling polydisperse sedimentation. Bulletin of the Brazilian Mathematical Society, 2016, 47, 171-185. | 0.8 | 12 |
| 59 | Computational uncertainty quantification for a clarifier-thickener model with several random perturbations: A hybrid stochastic Galerkin approach. Computers and Chemical Engineering, 2016, 89, 11-26. | 3.8 | 12 |
| 60 | A simulation model for settling tanks with varying cross-sectional area. Chemical Engineering Communications, 2017, 204, 1270-1281. | 2.6 | 12 |
| 61 | A population balance model of ball wear in grinding mills: An experimental case study. Minerals Engineering, 2018, 128, 288-293. | 4.3 | 12 |
| 62 | A finite volume scheme for cardiac propagation in media with isotropic conductivities. Mathematics and Computers in Simulation, 2010, 80, 1821-1840. | 4.4 | 11 |
| 63 | On an upwind difference scheme for strongly degenerate parabolic equations modelling the settling of suspensions in centrifuges and non-cylindrical vessels. Applied Numerical Mathematics, 2006, 56, 1397-1417. | 2.1 | 10 |
| 64 | On the settling of a bidisperse suspension with particles having different sizes and densities. Acta Mechanica, 2008, 201, 47-62. | 2.1 | 10 |
| 65 | Centrifugal Settling of Flocculated Suspensions: A Sensitivity Analysis of Parametric Model Functions. Drying Technology, 2010, 28, 858-870. | 3.1 | 10 |
| 66 | WENO Reconstructions of Unconditionally Optimal High Order. SIAM Journal on Numerical Analysis, 2019, 57, 2760-2784. | 2.3 | 10 |
| 67 | Modelling the spatial-temporal progression of the 2009 A/H1N1 influenza pandemic in Chile. Mathematical Biosciences and Engineering, 2016, 13, 43-65. | 1.9 | 10 |
| 68 | Monotone difference schemes stabilized by discrete mollification for strongly degenerate parabolic equations. Numerical Methods for Partial Differential Equations, 2012, 28, 38-62. | 3.6 | 9 |
| 69 | Stability analysis and finite volume element discretization for delay-driven spatio-temporal patterns in a predator-prey model. Mathematics and Computers in Simulation, 2017, 132, 28-52. | 4.4 | 9 |
| 70 | Central WENO Schemes Through a Global Average Weight. Journal of Scientific Computing, 2019, 78, 499-530. | 2.3 | 9 |
| 71 | Simulation and control of dissolved air flotation and column froth flotation with simultaneous sedimentation. Water Science and Technology, 2020, 81, 1723-1732. | 2.5 | 9 |
| 72 | Implicit-Explicit Methods for a Convection-Diffusion-Reaction Model of the Propagation of Forest Fires. Mathematics, 2020, 8, 1034. | 2.2 | 9 |

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|----|---|-----|-----------|
| 73 | Neumann Problems for Quasi-linear Parabolic Systems Modeling Polydisperse Suspensions. SIAM Journal on Mathematical Analysis, 2006, 38, 557-573. | 1.9 | 8 |
| 74 | Numerical simulation of clarifier-thickener units treating ideal suspensions with a flux density function having two inflection points. Mathematical and Computer Modelling, 2006, 44, 255-275. | 2.0 | 8 |
| 75 | Antidiffusive and Random-Sampling Lagrangian-Remap Schemes for the Multiclass Lighthill-Whitham-Richards Traffic Model. SIAM Journal of Scientific Computing, 2013, 35, B1341-B1368. | 2.8 | 8 |
| 76 | Approximate Lax-Wendroff discontinuous Galerkin methods for hyperbolic conservation laws. Computers and Mathematics With Applications, 2017, 74, 1288-1310. | 2.7 | 8 |
| 77 | A difference scheme for a degenerating convection-diffusion-reaction system modelling continuous sedimentation. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 365-392. | 1.9 | 8 |
| 78 | Estimating the hindered-settling flux function from a batch test in a cone. Chemical Engineering Science, 2018, 192, 244-253. | 3.8 | 8 |
| 79 | Flux identification of scalar conservation laws from sedimentation in a cone. IMA Journal of Applied Mathematics, 2018, 83, 526-552. | 1.6 | 8 |
| 80 | Implicit-explicit methods for a class of nonlinear nonlocal gradient flow equations modelling collective behaviour. Applied Numerical Mathematics, 2019, 144, 234-252. | 2.1 | 8 |
| 81 | Measuring differences between phenomenological growth models applied to epidemiology. Mathematical Biosciences, 2021, 334, 108558. | 1.9 | 8 |
| 82 | On some difference schemes and entropy conditions for a class of multi-species kinematic flow models with discontinuous flux. Networks and Heterogeneous Media, 2010, 5, 461-485. | 1.1 | 8 |
| 83 | An investigation of spatial-temporal patterns and predictions of the coronavirus 2019 pandemic in Colombia, 2020-2021. PLoS Neglected Tropical Diseases, 2022, 16, e0010228. | 3.0 | 8 |
| 84 | Analysis of sedimentation biodetectors. Chemical Engineering Science, 2005, 60, 2585-2598. | 3.8 | 7 |
| 85 | Multiresolution schemes for strongly degenerate parabolic equations in one space dimension. Numerical Methods for Partial Differential Equations, 2007, 23, 706-730. | 3.6 | 7 |
| 86 | Coupling of Discontinuous Galerkin Schemes for Viscous Flow in Porous Media with Adsorption. SIAM Journal of Scientific Computing, 2018, 40, B637-B662. | 2.8 | 7 |
| 87 | A system of conservation laws with discontinuous flux modelling flotation with sedimentation. IMA Journal of Applied Mathematics, 2019, 84, 930-973. | 1.6 | 7 |
| 88 | Entropy Solutions of a Scalar Conservation Law Modeling Sedimentation in Vessels With Varying Cross-Sectional Area. SIAM Journal on Applied Mathematics, 2017, 77, 789-811. | 1.8 | 6 |
| 89 | Computational uncertainty quantification for some strongly degenerate parabolic convection-diffusion equations. Journal of Computational and Applied Mathematics, 2019, 348, 490-508. | 2.0 | 6 |
| 90 | A method-of-lines formulation for a model of reactive settling in tanks with varying cross-sectional area. IMA Journal of Applied Mathematics, 2021, 86, 514-546. | 1.6 | 6 |

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|-----|--|-----|-----------|
| 91 | A conservation law with multiply discontinuous flux modelling a flotation column. <i>Networks and Heterogeneous Media</i> , 2018, 13, 339-371. | 1.1 | 6 |
| 92 | A Diffusively Corrected Multiclass Lighthill-Whitham-Richards Traffic Model with Anticipation Lengths and Reaction Times. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 728-758. | 1.2 | 6 |
| 93 | Spectral WENO schemes with Adaptive Mesh Refinement for models of polydisperse sedimentation. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2013, 93, 373-386. | 1.6 | 5 |
| 94 | Efficient parameter estimation in a macroscopic traffic flow model by discrete mollification. <i>Transportmetrica A: Transport Science</i> , 2015, 11, 702-715. | 2.0 | 5 |
| 95 | Numerical solution of a multi-class model for batch settling in water resource recovery facilities. <i>Applied Mathematical Modelling</i> , 2017, 49, 415-436. | 4.2 | 5 |
| 96 | A random sampling method for a family of Temple-class systems of conservation laws. <i>Numerische Mathematik</i> , 2018, 138, 37-73. | 1.9 | 5 |
| 97 | A dynamic multilayer shallow water model for polydisperse sedimentation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2019, 53, 1391-1432. | 1.9 | 5 |
| 98 | A Population Balance Model for Shear-Induced Polymer-Bridging Flocculation of Total Tailings. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 40. | 2.0 | 5 |
| 99 | Centrifugal Settling of Polydisperse Suspensions with a Continuous Particle Size Distribution: A Generalized Kinetic Description. <i>Drying Technology</i> , 2008, 26, 1024-1034. | 3.1 | 4 |
| 100 | Linearly implicit-explicit schemes for the equilibrium dispersive model of chromatography. <i>Applied Mathematics and Computation</i> , 2018, 317, 172-186. | 2.2 | 4 |
| 101 | Implicit-explicit schemes for nonlinear nonlocal equations with a gradient flow structure in one space dimension. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 1008-1034. | 3.6 | 4 |
| 102 | On approximate implicit Taylor methods for ordinary differential equations. <i>Computational and Applied Mathematics</i> , 2020, 39, 1. | 2.2 | 4 |
| 103 | Exploring a Convection-Diffusion-Reaction Model of the Propagation of Forest Fires: Computation of Risk Maps for Heterogeneous Environments. <i>Mathematics</i> , 2020, 8, 1674. | 2.2 | 4 |
| 104 | A multiclass Lighthill-Whitham-Richards traffic model with a discontinuous velocity function. <i>Networks and Heterogeneous Media</i> , 2021, 16, 187. | 1.1 | 4 |
| 105 | A moving-boundary model of reactive settling in wastewater treatment. Part 1: Governing equations. <i>Applied Mathematical Modelling</i> , 2022, 106, 390-401. | 4.2 | 4 |
| 106 | Optimization of Parameters for Rheological Properties and Strength of Cemented Paste Backfill Blended with Coarse Aggregates. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 374. | 2.0 | 4 |
| 107 | On the hyperbolicity of certain models of polydisperse sedimentation. <i>Mathematical Methods in the Applied Sciences</i> , 2012, 35, 723-744. | 2.3 | 3 |
| 108 | Antidiffusive remap schemes for models of polydisperse sedimentation. <i>Numerical Methods for Partial Differential Equations</i> , 2016, 32, 1109-1136. | 3.6 | 3 |

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|-----|--|-----|-----------|
| 109 | Flotation with sedimentation: Steady states and numerical simulation of transient operation. Minerals Engineering, 2020, 157, 106419. | 4.3 | 3 |
| 110 | Convergence of H(div)-conforming schemes for a new model of sedimentation in circular clarifiers with a rotating rake. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113130. | 6.6 | 3 |
| 111 | Second-order schemes for axisymmetric Navier-Stokes-Brinkman and transport equations modelling water filters. Numerische Mathematik, 2021, 147, 431-479. | 1.9 | 3 |
| 112 | Three-level order-adaptive weighted essentially non-oscillatory schemes. Results in Applied Mathematics, 2021, 12, 100217. | 1.3 | 3 |
| 113 | A moving-boundary model of reactive settling in wastewater treatment. Part 2: Numerical scheme. Applied Mathematical Modelling, 2022, 111, 247-269. | 4.2 | 3 |
| 114 | Towards Improved 1-D Settler Modelling: Calibration of the Bärgger Model and Case Study. Proceedings of the Water Environment Federation, 2013, 2013, 3953-3969. | 0.0 | 2 |
| 115 | Polynomial viscosity methods for multispecies kinematic flow models. Numerical Methods for Partial Differential Equations, 2016, 32, 1265-1288. | 3.6 | 2 |
| 116 | On entropy stable schemes for degenerate parabolic multispecies kinematic flow models. Numerical Methods for Partial Differential Equations, 2019, 35, 1847-1872. | 3.6 | 2 |
| 117 | A Multiresolution Method for the Simulation of Sedimentation-Consolidation Processes. , 2006, , 387-395. | | 2 |
| 118 | Adaptive Multiresolution Simulation of Waves in Electrocardiology. , 2010, , 199-207. | | 2 |
| 119 | A STABILITY AND SENSITIVITY ANALYSIS OF PARAMETRIC FUNCTIONS IN A SEDIMENTATION MODEL. DYNA (Colombia), 2014, 81, 22. | 0.4 | 2 |
| 120 | Uncertainty Quantification for a Clarifier-Thickener Model with Random Feed. Springer Proceedings in Mathematics, 2011, , 195-203. | 0.5 | 2 |
| 121 | Numerical analysis of a three-species chemotaxis model. Computers and Mathematics With Applications, 2020, 80, 183-203. | 2.7 | 1 |
| 122 | Mathematical Models for the Sedimentation of Suspensions. , 2006, , 7-44. | | 1 |
| 123 | Well-posedness and Travelling Wave Analysis for a Strongly Degenerate Parabolic Aggregation Equation. Series in Contemporary Applied Mathematics, 2012, , 312-319. | 0.8 | 1 |
| 124 | Implicit-Explicit Methods for the Efficient Simulation of the Settling of Dispersions of Droplets and Colloidal Particles. Advances in Applied Mathematics and Mechanics, 2018, 10, 445-467. | 1.2 | 1 |
| 125 | Study of steel ball recharge and consumption in a wet cement industrial mill via a population balance model. Particulate Science and Technology, 2022, 40, 972-979. | 2.1 | 1 |
| 126 | On entropy solutions for an inhomogeneous kinematic traffic model. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1041801-1041802. | 0.2 | 0 |

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|-----|--|-----|-----------|
| 127 | Numerical schemes for kinematic flows with discontinuous flux. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2040029-2040030. | 0.2 | 0 |
| 128 | Multiresolution schemes for an extended clarifier-thickener model. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1041803-1041804. | 0.2 | 0 |
| 129 | Adaptive multiresolution schemes for reaction-diffusion systems. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10969-10970. | 0.2 | 0 |
| 130 | A finite volume element method for simulating secondary settling tanks. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 667-668. | 0.2 | 0 |
| 131 | Editorial: ZAMM 6-7 / 2013. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2013, 93, 372-372. | 1.6 | 0 |
| 132 | On time discretizations for the simulation of the batch settling-compression process in one dimension. Water Science and Technology, 2016, 73, 1010-1017. | 2.5 | 0 |
| 133 | A discontinuous method for oil-water flow in heterogeneous porous media. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 763-764. | 0.2 | 0 |
| 134 | On second-order antidiffusive Lagrangian-remap schemes for multispecies kinematic flow models. Bulletin of the Brazilian Mathematical Society, 2016, 47, 187-200. | 0.8 | 0 |
| 135 | Discontinuous approximation of flow in porous media with adsorption. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800064. | 0.2 | 0 |
| 136 | A Multilayer Shallow Water Approach for Polydisperse Sedimentation with Sediment Compressibility and Mixture Viscosity. Journal of Scientific Computing, 2020, 85, 1. | 2.3 | 0 |
| 137 | Mixed-type systems of convection-diffusion equations modeling polydisperse sedimentation. Lecture Notes in Applied and Computational Mechanics, 2003, , 257-262. | 2.2 | 0 |
| 138 | Recent advances in conservation laws with discontinuous flux and clarifier-thickener models. Lecture Notes in Applied and Computational Mechanics, 2003, , 137-142. | 2.2 | 0 |
| 139 | Hybrid Stochastic Galerkin Finite Volumes for the Diffusively Corrected Lighthill-Whitham-Richards Traffic Model. Springer Proceedings in Mathematics and Statistics, 2017, , 189-197. | 0.2 | 0 |